

January 2012 Exam Outcome Review: What You Need to Know.

The exam is divided into three sections:

A) Multiple Choice	(Value 30)
B) Short Answer	(Value 55)
C) Word Problems	(Value 15)

REVIEW:

- Fractions - comparing, ordering, add/subtract/multiply/divide, change to decimal (or change decimal to fraction)
- Integers - comparing, ordering, add/subtract/multiply/divide
- Order of Operations (BEDMAS) – with fractions or integers

Concentrated Areas to Study:

UNIT 3 – RATIONAL NUMBERS

- Definition, give examples in decimal and fraction form
- Comparing and ordering (i.e., on number line) – decimal and/or fraction form
- Add/subtract/multiply/divide – decimal and/or fraction form
- Order of operations – decimal and/or fraction form

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UNIT 1 – SQUARE ROOTS / PYTHAGORAS THEOREM

- Perfect squares – in fraction and decimal form, find square roots
- Non-perfect squares – in fraction or decimal form, estimate square roots
- Find length of unknown side in right triangle (hypotenuse OR other leg) using Pythagorean Theorem

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UNIT 2 – POWERS AND EXPONENT LAWS

- Write powers as repeated multiplication, remembering that negative inside brackets can make the answer different than if the negative is outside brackets
- Exponent laws – zero exponent, product of powers, quotient of powers, power of a power, power of a product, power of a quotient

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UNIT 5 – POLYNOMIALS

- Definitions – term, polynomial, trinomial, binomial, monomial, constant, degree, coefficient
- Represent polynomials with algebra tiles
- Add like terms
- Add/subtract polynomials (with or without algebra tiles)
- Multiply/Divide polynomial by a constant
- Multiply/Divide polynomial by a monomial

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UNIT 1 – SURFACE AREA

- Area of square, rectangle, triangle, circle
- Surface area of right rectangular prism, right triangular prism, cylinder
- Surface area of composite objects (sum of surface area of objects, minus the overlap area)

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